

What is claimed is:

1. A powered planer tool, said planer tool having
a cylinder with at least one cutter blade mounted thereon;
drive means to cause the cylinder to rotate about an axis of rotation with a
5 portion of the cylinder exposed through an opening in a planing surface of
the planer to cause the removal of material from a surface along which the
planing surface is moved;
said cylinder and drive means mounted within a housing and wherein the drive
means is positioned in the housing above the axis of rotation of the
10 cylinder.
2. A planer according to claim 1 wherein the drive means is located in the
planer such that the drive means motor lies within a 120 degree arc depending
upwardly from the rotational axis of the cylinder.
- 15 3. A planer according to claim 1 wherein the drive means is positioned
above the said axis of rotation of the cylinder and offset to one side or the other
of said axis.
- 20 4. A planer according to claim 1 wherein the weight of the motor is above
the cutting blades.
5. A planer according to claim 4 wherein the weight of the motor is directly
above the cutting blade cylinder.
- 25 6. A planer according to claim 1 wherein the blade cylinder is rotatably
mounted within a blade chamber, the blade chamber being a void space into
which chips or shavings from the workpiece are drawn by the stream of air
created by the high speed rotation of the blade cylinder.
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7. A planer according to claim 1 wherein the housing of the planer includes a chip and debris removal system, said system including at least one channel which passes from an opening at or adjacent to the blade chamber in which the cylinder is located to at least one further opening to allow the chips and debris to exit towards
5 the rear of the housing.
8. A planer according to claim 7 wherein the chips or shavings from the workpiece drawn into the blade chamber by the cylinder rotation and are caused, by the draft associated with the high speed rotation, to move directly into the at least one channel,
10 and out of the rear, or sides of the housing located towards the rear of the cylinder of the planer.
9. A planer according to claim 7 wherein a movable passage is incorporated within the planer or attached to the rear of the planer at the end of the at least one channel,
15 and is used to direct the chips or shavings in a direction desired by the planer operator.
10. A planer according to claim 7 wherein the at least one channel from the cylinder leads into at least two passages, each passage having an opening to allow the passage of the chips and debris from the housing, with a first passage leading to an opening on
20 a first side of the body housing, and the other passage leading to an opening at the rear or the other side of the housing.
11. A planer according to claim 10 wherein user selection means are provided to allow one of the passages to be opened to allow the chips and debris to move
25 through the same, with the other passage held closed.
12. A planer according to claim 7 wherein two channels are provided from the blade chamber, each channel leading to a passage each passage having an opening to allow the passage of the chips and debris from the housing, with one
30 passage leading to an opening on a first side of the body housing, and the other passage leading to an opening at the rear or the other side of the housing.

13. A planer according to claim 12 wherein the two channels both lead from the blade chamber and lie in a side by side arrangement as they pass towards the rear of the housing.

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14. A planer according to claims 12 or 13 wherein user selection means are provided to allow one of the channels or passages to be opened to allow the chips and debris to move through the same, with the other channel and passage closed.

10 15. A planer according to any of claims 10-14 wherein the channel or channels pass in a path along the housing adjacent the planing surface of the planer.

15 16. A planer according to any of claims 10-15 wherein the channel or channels pass along a path in the housing which is substantially centrally of the housing.

17. A powered planer tool, said planer tool having
a cylinder with at least one cutter blade mounted thereon;
20 drive means to cause the cylinder to rotate about an axis of rotation with a
portion of the cylinder exposed through an opening in a planing surface of
the planer to cause the removal of material from a surface along which the
planing surface is moved;
said cylinder and drive means mounted within a housing and wherein the blade
25 cylinder for the planer is provided with more than two straight cutting
blades;
said blades positioned substantially 120 degrees or less, apart around the cylinder
periphery.

18. A planer according to claim 17 wherein in one rotation of the cylinder at
30 least three different blades contact with the surface to be planed.

19. A powered planer tool, said planer tool comprising:
a cylinder with at least one cutter blade mounted thereon;
drive means to cause the cylinder to rotate about an axis of rotation with a
portion of the cylinder exposed through an opening in a planing surface of
the planer to cause the removal of material from a surface along which the
planing surface is moved;
said cylinder and drive means mounted within a housing and wherein the blade
cylinder for the planer is provided with two or more helically shaped
blades;
said blades positioned substantially 180 degrees or less, apart around the cylinder
periphery.
20. A planer including:
a housing having a base planning surface for contacting a work piece;
a rotatable blade assembly located within said housing and including one or more
cutting blades for engaging with and planning the work piece;
a motor associated with the blade assembly and operable to cause rotation of the
blade assembly;
wherein the motor is located within the planer housing directly above the blade
assembly such that the weight of the motor is directly above the cutting
blades.
21. A planer according to claim 20, wherein the blade assembly is
rotatably mounted within a blade chamber, the blade chamber being a void space
surrounding the blade assembly into which chips or shavings off the workpiece
are drawn by the stream of air created by the high speed rotation of the blade
assembly.
22. A planer according to claim 21, wherein the housing of the planer further
includes a channel for removal of chips or shavings from the workpiece.

23. A planer according to claim 22, wherein the channel opens at one end into the blade chamber and the opposite end of the channel opens at the rear of the planer.

5 24. A planer according to claim 23, further including two passages connected to the channel selectively via a selection means for directing the chips or shavings along an open passage as desired by the planer operator.

25. A planer according to any preceding claim wherein the planer is portable.
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26. A planer according to any preceding claim wherein the planer is battery operated.

27. A planer according to any one of claims 1-25, wherein the planer is
15 provided with a power cord and operated by main power.